Performance Data Sheet

AE4430Z-FZ1A

General Information

Model	AE4430Z-FZ1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-15	Btu/h	1520	1260	1000	721
	Watts (Power)	216	232	247	255
	Amps	1.72	1.76	1.80	1.81
	Lb/h	24.4	22.8	20.8	18.4
-10	Btu/h	1890	1590	1280	956
	Watts (Power)	228	250	270	284
	Amps	1.75	1.81	1.87	1.91
	Lb/h	30.4	28.7	26.7	24.3
-6.7	Btu/h	2160	1830	1480	1120
	Watts (Power)	235	260	284	303
	Amps	1.77	1.84	1.92	1.97
	Lb/h	35.0	33.3	31.2	28.7
-5	Btu/h	2320	1960	1590	1200
	Watts (Power)	238	265	291	313
	Amps	1.78	1.86	1.94	2.00
	Lb/h	37.6	35.8	33.6	31.1
0	Btu/h	2820	2390	1940	1480
	Watts (Power)	245	277	310	339
	Amps	1.81	1.90	2.00	2.10
	Lb/h	46.3	44.2	41.8	39.0
5	Btu/h	3410	2880	2340	1780
	Watts (Power)	248	286	326	363
	Amps	1.82	1.93	2.06	2.18
	Lb/h	56.8	54.3	51.5	48.4
7.2	Btu/h	3690	3120	2530	1930
	Watts (Power)	248	289	332	372
	Amps	1.82	1.94	2.08	2.22
	Lb/h	62.1	59.4	56.4	53.1
10	Btu/h	4090	3450	2800	2130
	Watts (Power)	247	291	338	382
	Amps	1.82	1.95	2.10	2.26
	Lb/h	69.5	66.5	63.2	59.6

15	Btu/h	4880	4110	3330	2540
	Watts (Power)	240	291	345	398
	Amps	1.79	1.95	2.13	2.32
	Lb/h	84.8	81.1	77.2	72.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.094416E+03	1.968618E+02	1.862090E+00	5.092904E+01
C2	1.585362E+02	-1.380107E+00	-1.057028E-03	2.121453E+00
C3	-4.263413E+01	-4.552719E-01	-1.506074E-02	-1.187199E-01
C4	2.672370E+00	-9.985284E-02	-3.353627E-04	4.414549E-02
C5	-1.642979E+00	5.400131E-02	8.849990E-06	-7.245429E-03
C6	2.701543E-02	9.113925E-02	5.661250E-04	-1.024413E-03
C7	1.445846E-02	-1.000850E-03	-5.266884E-06	4.480579E-04
C8	-3.313097E-02	7.146749E-04	3.477579E-06	-2.445512E-04
C9	-7.239938E-04	8.708442E-04	5.140356E-06	8.254403E-06
C10	-7.318099E-04	-7.340517E-04	-4.173448E-06	-5.173985E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

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AE4430Z-FZ1A

General Information

Model	AE4430Z-FZ1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	1600	1460	1320	1180	1030	878	721
	Watts	211	219	229	237	245	251	255
	Amps	1.70	1.72	1.75	1.77	1.80	1.81	1.81
	Lb/h	24.9	24.1	23.2	22.1	21.0	19.7	18.4
10	Btu/h	1810	1660	1500	1350	1190	1020	850
	Watts	217	227	238	248	258	266	271
	Amps	1.72	1.75	1.77	1.81	1.83	1.86	1.87
	Lb/h	28.1	27.3	26.4	25.4	24.2	23.0	21.6
15	Btu/h	2030	1860	1700	1520	1350	1170	983
	Watts	223	234	247	259	270	280	288
	Amps	1.74	1.77	1.80	1.84	1.87	1.90	1.92
	Lb/h	31.6	30.8	29.9	28.8	27.7	26.4	25.0
20	Btu/h	2280	2090	1910	1720	1520	1320	1120
	Watts	228	241	255	268	282	294	304
	Amps	1.76	1.79	1.82	1.87	1.91	1.94	1.97
	Lb/h	35.6	34.7	33.7	32.6	31.5	30.2	28.7
25	Btu/h	2540	2340	2130	1920	1710	1490	1260
	Watts	232	246	262	277	293	307	319
	Amps	1.77	1.80	1.85	1.90	1.94	1.99	2.02
	Lb/h	40.0	39.0	38.0	36.8	35.6	34.2	32.7
30	Btu/h	2840	2610	2380	2140	1910	1660	1410
	Watts	235	251	268	286	303	319	333
	Amps	1.78	1.82	1.87	1.92	1.98	2.03	2.07
	Lb/h	44.8	43.8	42.7	41.5	40.1	38.7	37.1
35	Btu/h	3160	2900	2650	2380	2120	1850	1570
	Watts	237	254	273	293	312	330	347
	Amps	1.79	1.83	1.89	1.95	2.01	2.07	2.12
	Lb/h	50.3	49.1	47.9	46.6	45.1	43.6	41.9
40	Btu/h	3510	3220	2940	2650	2350	2050	1750
	Watts	237	256	277	299	320	341	360
	Amps	1.79	1.84	1.90	1.97	2.04	2.11	2.17
	Lb/h	56.3	55.1	53.7	52.2	50.7	49.0	47.3

45	Btu/h	3890	3570	3250	2930	2600	2270	1930
	Watts	236	257	280	303	327	350	372
	Amps	1.79	1.84	1.91	1.99	2.06	2.14	2.22
	Lb/h	63.0	61.6	60.1	58.5	56.8	55.0	53.1
50	Btu/h	4300	3950	3590	3240	2870	2510	2130
	Watts	233	256	281	307	333	358	382
	Amps	1.78	1.84	1.92	2.00	2.09	2.17	2.26
	Lb/h	70.5	68.9	67.2	65.5	63.6	61.6	59.6
55	Btu/h	4740	4360	3960	3570	3170	2760	2350
	Watts	229	254	280	308	337	365	392
	Amps	1.77	1.84	1.92	2.01	2.10	2.20	2.29
	Lb/h	78.7	77.0	75.1	73.1	71.1	68.9	66.7
60	Btu/h	5230	4800	4370	3930	3490	3040	2590
	Watts	223	250	278	308	339	370	399
	Amps	1.75	1.82	1.91	2.01	2.11	2.22	2.32
	Lb/h	87.8	85.8	83.8	81.6	79.3	77.0	74.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.480905E+03	2.446432E+02	2.228978E+00	2.550263E+01
C2	4.736947E+01	5.490077E-01	5.299244E-03	5.297204E-01
C3	-1.444927E+01	-2.541922E+00	-1.941984E-02	-1.692616E-02
C4	7.685949E-01	-1.826528E-02	-3.589069E-05	7.591557E-03
C5	-1.355700E-01	-7.323148E-04	-9.184120E-05	3.568628E-04
C6	2.435688E-02	3.543426E-02	2.152237E-04	-2.762999E-04
C7	2.479159E-03	-1.716135E-04	-9.031008E-07	7.682748E-05
C8	-5.680893E-03	1.225437E-04	5.962927E-07	-4.193265E-05
C9	-1.241416E-04	1.493217E-04	8.814054E-07	1.415364E-06
C10	-1.254818E-04	-1.258662E-04	-7.156118E-07	-8.871717E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

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AE4430Z-FZ1A

General Information

Model	AE4430Z-FZ1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-15	Watts (Capacity)	445	371	293	211
	Watts (Power)	216	232	247	255
	Amps	1.72	1.76	1.80	1.81
	Lb/h	14.1	13.6	13.1	12.8
-10	Watts (Capacity)	553	466	375	280
	Watts (Power)	228	250	270	284
	Amps	1.75	1.81	1.87	1.91
	Lb/h	17.1	16.7	16.2	15.9
-6.7	Watts (Capacity)	634	536	434	328
	Watts (Power)	235	260	284	303
	Amps	1.77	1.84	1.92	1.97
	Lb/h	19.3	18.8	18.4	18.0
-5	Watts (Capacity)	679	574	466	353
	Watts (Power)	238	265	291	313
	Amps	1.78	1.86	1.94	2.00
	Lb/h	20.5	20.0	19.5	19.2
0	Watts (Capacity)	826	699	568	432
	Watts (Power)	245	277	310	339
	Amps	1.81	1.90	2.00	2.10
	Lb/h	24.4	23.8	23.2	22.7
5	Watts (Capacity)	998	844	685	522
	Watts (Power)	248	286	326	363
	Amps	1.82	1.93	2.06	2.18
	Lb/h	28.9	28.1	27.2	26.5
7.2	Watts (Capacity)	1080	915	743	565
	Watts (Power)	248	289	332	372

	Amps	1.82	1.94	2.08	2.22
	Lb/h	31.1	30.2	29.2	28.3
10	Watts (Capacity)	1200	1010	821	625
	Watts (Power)	247	291	338	382
	Amps	1.82	1.95	2.10	2.26
	Lb/h	34.1	33.0	31.8	30.7
15	Watts (Capacity)	1430	1210	977	744
	Watts (Power)	240	291	345	398
	Amps	1.79	1.95	2.13	2.32
	Lb/h	40.1	38.5	36.9	35.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.19996E+03	1.96862E+02	1.86209E+00	2.46330E+01
C2	4.64625E+01	-1.38011E+00	-1.05709E-03	9.56295E-01
C3	-1.24952E+01	-4.55270E-01	-1.50605E-02	5.78279E-02
C4	7.83196E-01	-9.98531E-02	-3.35364E-04	1.75974E-02
C5	-4.81513E-01	5.40016E-02	8.85264E-06	-3.84344E-03
C6	7.92581E-03	9.11392E-02	5.66121E-04	-2.87320E-03
C7	4.23737E-03	-1.00085E-03	-5.26690E-06	1.15010E-04
C8	-9.70977E-03	7.14678E-04	3.47761E-06	-1.87416E-04
C9	-2.12140E-04	8.70842E-04	5.14033E-06	1.03565E-06
C10	-2.14533E-04	-7.34052E-04	-4.17342E-06	2.26778E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature